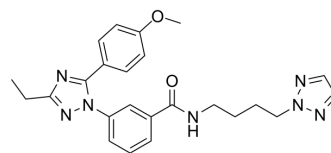


## HJ445A

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-163084  |
| CAS No.:           | 3032441-59-8   |
| Molecular Formula: | C <sub>24</sub> H <sub>27</sub> N <sub>7</sub> O <sub>2</sub>                                      |
| Molecular Weight:  | 445.52   |
| Target:            | Others   |
| Pathway:           | Others   |
| Storage:           | Powder    -20°C    3 years<br>4°C    2 years<br>In solvent   -80°C    6 months<br>-20°C    1 month |



### SOLVENT & SOLUBILITY

|   |   |   |           |            |            |
|---|---|---|-----------|------------|------------|
| In Vitro  | DMSO : 100 mg/mL (224.46 mM; Need ultrasonic)   |   |           |            |            |
|   | Preparing Stock Solutions   | <div><div>Solvent</div><div>Concentration</div></div> <div>Mass</div> | 1 mg      | 5 mg       | 10 mg      |
|   |   | 1 mM  | 2.2446 mL | 11.2228 mL | 22.4457 mL |
|   |   | 5 mM  | 0.4489 mL | 2.2446 mL  | 4.4891 mL  |
|   |   | 10 mM   | 0.2245 mL | 1.1223 mL  | 2.2446 mL  |
| Please refer to the solubility information to select the appropriate solvent. |   |   |           |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic |   |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic            |   |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic                            |   |           |            |            |
|   |   |   |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |   |
|---------------------------|---|
| Description               | HJ445A is a potent MYOF inhibitor and binds to the MYOF-C2D domain with a K <sub>D</sub> of 0.17 μM. HJ445A potently repressed the proliferation of gastric cancer cells with IC <sub>50</sub> values of 0.16 and 0.14 μM in MGC803 and MKN45, respectively. HJ445A demonstrates superior antitumor efficacy in vivo and can be used for cancer research <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | IC50: MYOF <sup>[1]</sup>   |

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## REFERENCES

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[1]. Haijun Gu, et al. Discovery of a Highly Potent and Selective MYOF Inhibitor with Improved Water Solubility for the Treatment of Gastric Cancer. J Med Chem. 2023 Dec 6.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA